

LAY4 series


Pushbutton

OPERATION INSTRUCTION

Standard: IEC 60947-5-1

CNC

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Power For Better Life

 Before installing and using this product, please read this manual carefully and pay more attention to safety.

1. Range of application






1.1 LAY4 series button is suitable for the industrial control circuit in which AC 50Hz or 60Hz, rated working voltage AC to 380V, DC to 250V. It can be used as the electromagnetic starter, contactor, relay or the controller of other electrical circuits. And the button with indicator light can be applied in light signal condition.

2. LAY4 series type explain

General button selection

LAY4	-	B	A	1	1
Model	-	Material	Operating mechanism	Color	Contact
LAY4 series	-	B: Metal	A: Flat head push button	1:White 2:Black 3:Green 4:Red 5:Yellow 6:Blue	1:1 NO 2:1 NC 3:2 NO 4:2 NC 5:1NO+1NC
			L: Projecting button		
			P: Flat head with waterproof		
		A: Plastic	C: Φ 40mm Mushroom head button		
			T: Φ 40mm Push-pull button		
			S5: Φ 40mm Emergency stop push button		
			S1: Φ 40mm Emergency stop push button Key		

Push button with symbol selection

LAY4	-	B	A	331	1
Model	-	Material	Operating mechanism	Symbol	Contact
LAY4 series	-	B: Metal A: Plastic	A: Flat head push button	331: 	1:1 NO 2:1 NC 3:2 NO 4:2 NC 5:1NO+1NC
				334: 	
				335: 	
				432: 	
				434:  STOP Red face STOP	

Push button with light selection

LAY4	-	B	W3	1	6	1
Model	-	Material	Operating mechanism	Color	Base Type	Contact
LAY4 series	-	B: Metal A: Plastic	W3: Flat head button with light	1: White 3: Green 4: Red 5: Yellow 6: Blue	6: Direct type	1:1 NO 2:1 NC 3:2 NO 4:2 NC 5:1NO+1NC

Selector switch selection

LAY4	-	B	D	2	5
Model	-	Material	Operating mechanism	Function	Contact
LAY4 series	-	B: Metal A: Plastic	D:Short handle J: Long handle	2: 2-position selection	1:1 NO 2:1 NC 3:2 NO 4:2 NC 5:1NO+1NC
				3:3-position selection	
				4:2-position right reset selection	
				5:3-position dual-side reset selection	
				7:3-position left reset right lock selection	
			G:With key	8:3-position left lock right reset selection	
				2:2-position left key extraction selection	
				4:2-position dual key extraction selection	
				6:2-position left key extraction right reset selection	
				3:3-position middle key extraction selection	
5:3-position middle key extraction dual reset selection					

Selector switch with light selection

LAY4	-	B	K1	2	3	M	5
Model	-	Material	Operating mechanism	Function	Indicator color	Indicator voltage	Contact
LAY4 series	-	B: Metal A: Plastic	K1:Selector switch with light	2:2-position selection	3:Green 4:Red 5:Yellow	B:AC/DC 24V M:AC/DC 220V	1:1 NO 2:1 NC 3:2 NO 4:2 NC 5:1NO+1NC
				3:3-position selection			
				4:2-position right reset selection			
				5:3-position dual-sidereset selection			

Dual head button selection

LAY4	-	B	L83	2	5
Model	-	Material	Operating mechanism	Color	Contact
LAY4 series	-	B: Metal A: Plastic	L83: Dual flat double-key button L84: Dual-key button for high and low	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1 NO 2: 1 NC 3: 2 NO 4: 2 NC 5: 1NO+1NC

Dual head with light selection

LAY4	-	B	W83	6	5
Model	-	Material	Operating mechanism	Base Type	Contact
LAY4 series	-	B: Metal A: Plastic	W83: Dual flat double-key button (red, green) W84: Dual-key button for high and low (red, green)	6: Direct type	1: 1 NO 2: 1 NC 3: 2 NO 4: 2 NC 5: 1NO+1NC

Dual head button selection

LAY4	-	B	V6	1
Model	-	Material	Operating mechanism	Indicator color
LAY4 series	-	B: Metal A: Plastic	V6: Pilot lamp	1: White 3: Green 4: Red 5: Yellow 6: Blue

Note: For LAY4 series button, the first code in auxiliary code is structure classification, B stands for metal series, E stand for plastic series. The type explanation of button box and other LA167 series button switch is left out; you can turn to the Selection Guide or make a phone consultation if needed.

3. LAY4 series

3.1 Specification

Rate insulation voltage	380					
Ithe(A)	10					
Rated working voltage			380	250	240	125
Rated working current	AC-15		2.5	-	3	-
	DC-13		-	0.27	-	0.55

3.2 Feature

Environmental required	The button should be installed in the medium away from the explosive danger, and the installation altitude should below 2000m
Standard	IEC 60947-5-1
Temperature	-25°C - +55°C
Ability of seismic endured	<500Hz, amplitude is about 1.0mm
Ability of impact endured	≥10g
Protect level	Ip40, IP65 can be customized

3.3 The specification of lamp bead

Type of lamp	LED		
Rated voltage	AC/DC 6V	AC/DC 12V	AC/DC 24V
	AC110V	AC220V	AC380V
Life	> 30000 hours		
Voltage limited	$0.85 U_n < U < 1.1 U_n$		

3.4 Features of the contacts

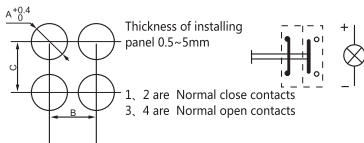
Contacts action	Slow move
Contact resistance	$\leq 50m\Omega$
Mechanical life	Self-reset button
Electric life	AC over 100,000
Short-circuit protect	RT16-10A
Wiring	Turning press terminal

3.5 Button box

Protect level	IP40, IP65 can be customized
Cable inlet	Knock down hole, suitable for PG 13.5 cable box

4. Installation method

4.1 LAY4 series opening pore requirement



Type	A	B	C	Info
Normal type	Ø22.3	≥ 50	≥ 35	1, unit: mm 2.B and C stands for the minimum size
Knob、key		≥ 50	≥ 35	
Mushroom type		≥ 50	≥ 42	
Large mushroom type		≥ 70	≥ 70	

Users should check if the product's operation is flexible, and test whether the contact of the contactors is good before installing.

When install the LAY4 series button, users should insert the operating head to the mounting hole, spin it into the substrate at

the back of the panel, then screw down the screw on the both ends. The screw moment should not above 0.25Nm, or the there may be clamping stagnation.



CERTIFICATE

Product Model: LAY4 series

Standard: IEC 60947-5-1

Inspector : **CNC001**

Production date: Printed on the product
or package.

This product is qualified according
to the delivery inspection

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